



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 106707**

**TO: Michael Pak**  
**Location: CM1/10E13/10D19**  
**Art Unit: 1646**  
**Thursday, October 30, 2003**  
  
**Case Serial Number: 09/820849**

**From: Toby Port**  
**Location: Biotech-Chem Library**  
**CM1-6A04**  
**Phone: 308-3534**  
  
**toby.port@uspto.gov**

### **Search Notes**

Dear Examiner Pak,

Here are the results of your search.  
Please feel free to contact me if you have any questions.

Toby Port

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QY      241 NVAQKKS 247
Db      248 NVAQKKS 254

RESULT 3
AAB90776
ID AAB90776 standard; Protein; 243 AA.
XX
AC AAB90776;
XX
DT 15-JUN-2001 (first entry)
XX
DE Human shear stress-response protein SEQ ID NO: 52.
XX
KW Human; shear stress-response protein; vascular disease;
KW arteriosclerosis.
XX
OS Homo sapiens.
XX
EN MO200125427-A1.
XX
PC 12-APR-2001.
XX
PF 02-OCT-2000; 2000MO-JP26840.
XX
PR 01-OCT-1999; 99JP-0280976.
XX
PA (KYOW ) KYOWA HAKKO KOGYO KK.;
PA (NOJIMA) NOJIMA H.
XX
PI Nojima H, Yoshisue H, Obayashi M, Ota T, Kawabata A, Sakurada K;
PI Kuga T, Sekine S, Nakamura Y, Sugano S;
XX
DR WPI; 2001-266308/27.
DR N-PSDB; AAHC2899.
XX
CC DNA sequences, proteins encoded by them and antibodies against them
PT useful in diagnosis and treatment of vascular disease caused by
PT arteriosclerosis -
XX
FS Claim 60; Page 365-366; 678pp; Japanese.
XX
CC The present invention provides the protein and coding sequences of a
CC number of human shear stress response proteins. These are useful in the
CC diagnosis, treatment and screening of vascular diseases caused by
CC arteriosclerosis, including heart failure, post-PTCA restenosis and
CC hypertension.
XX
SQ Sequence 243 AA;

Query Match: 98.8%; Score 1284; DB 22; Length 243;
Best Local Similarity 99.8%; Pred. No. 2,7e-123;
Matches 242; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 MSGLRPGTQVDPIELFVKGAGSGSIGNCPFCORLFMLWLKGVKFNVTIVDMTKRPEE 60
Db      1 MSGLRPGTQVDPIELFVKGAGSGSIGNCPFCORLFMLWLKGVKFNVTIVDMTKRPEE 60

QY      61 LKDLAPGTNPPFLVYNKELKTDIFKIEEFLEQTLAPPRYHLSFKYKESFDVGCNLFPAKF 120
Db      61 LKDLAPGTNPPFLVYNKELKTDIFKIEEFLEQTLAPPRYHLSFKYKESFDVGCNLFPAKF 120

QY      121 SAYIKNTQKANKPKSLKEKFLKRLDDYNTPLLEIDPDSAEPEPVSRRLFDGSQLT 180
Db      121 SAYIKNTQKANKPKSLKEKFLKRLDDYNTPLLEIDPDSAEPEPVSRRLFDGSQLT 180

QY      181 LADCSLLPKLNIIKVAACKYRQDIPAEFSGVWRYLHNAYAREEFTHTCPEDKEIENTYA 240
Db      181 LADCSLLPKLNIIKVAACKYRQDIPAEFSGVWRYLHNAYAREEFTHTCPEDKEIENTYA 240

QY      241 NVA 243

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Db      241 NVA 243
RESULT 4
AAY70461
ID AAY70461 standard; Protein; 251 AA.
XX
AC AAY70461;
XX
DT 21-JUN-2000 (first entry)
XX
DE Human membrane channel protein-11 (MECHP-11).
XX
KW Membrane channel protein-11; MECHP-11; diagnosis; treatment; lymphoma;
KW cell proliferative disorder; bursitis; arteriosclerosis; cancer; sarcoma;
KW inflammatory disorder; AIDS; Addison's disease; cystic fibrosis; asthma;
KW diabetes mellitus; osmoregulatory disorder; diarrhoea; renal failure;
KW muscular disorder; myocarditis; Duchenne's muscular dystrophy; motoric;
KW cardiovascular disorder; hypertension; bronchitis; vasculitis; cardiac;
KW neurological disorder; Alzheimer's disease; Parkinson's disease; human;
KW Huntington's disease; antiarteriosclerotic; hepatotropic; cytostatic;
KW anti-HIV; antianemic; neuroprotective; immunomodulatory; antidiabetic;
KW hypotensive; vasotropic; antiasthmatic; antiinflammatory; antidiuretic;
KW anticonvulsant; thrombolytic; antiparkinsonian; immunostimulant.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Modified-site 249 /note= "Phosphorylation site"
FT Modified-site 52 /note= "Phosphorylation site"
FT Modified-site 164 /note= "Phosphorylation site"
FT Modified-site 192 /note= "Phosphorylation site"
FT Modified-site 235 /note= "Phosphorylation site"
FT Modified-site 35 /note= "Phosphorylation site"
FT Modified-site 171 /note= "Phosphorylation site"
FT Modified-site 50 /note= "Glycosylation site"
XX
PN MO200002711-A2.
PD 09-MAR-2000.
XX
PF 02-SEP-1999; 99MO-US20468.
XX
PR 02-SEP-1998; 98US-0145815.
PR 12-NOV-1998; 98US-0191283.
PR 09-DEC-1998; 98US-0208821.
PR 26-JAN-1999; 99US-0237506.
PR 10-FEB-1999; 99US-0247891.
XX
PA (INCY-) INCYTE PHARM INC.
XX
PI Au-Young J, Bandman O, Tang YT, Reddy R, Hillman JL, Yue H;
PI Lai P, Corley NC, Guegler KJ, Gorgone G, Baughn MR, Azimzai Y;
XX
DR WPI; 2000-256643/22.
DR N-PSDB; AA251627.
XX
CC Novel human membrane channel protein and polynucleotide useful for
CC diagnosing and treating cell proliferative, inflammatory, secretory,
CC osmoregulatory, muscular, cardiovascular and neurological disorders.
XX
FS Claim 1; Page 111-112; 140pp; English.
XX
CC The present sequence is the human membrane channel protein-11 (MECHP-11);

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US-09-82(

10 839 64.0 686 23 AAE16790 Human transporter  
 11 829 63.3 253 19 AAW1089 Human anion channel  
 12 796.5 60.8 321 22 ABG23499 Novel human channel  
 13 744 56.8 241 21 AAY79197 Human diacylglycerol  
 14 744 56.8 241 23 ABB08074 Human diacylglycerol  
 15 737 56.3 601 21 AAY79240 Human diacylglycerol  
 16 662.5 50.6 208 22 AAB93141 Human protein sequ  
 17 655 50.0 197 24 ABG73059 Human chloride int  
 18 655 50.0 219 24 ABG73058 Human chloride int  
 19 651 49.7 205 22 AAX93570 Human polypeptide,  
 20 645 49.2 371 23 AAE22926 Human transporter  
 21 639 48.8 197 24 ABG73060 Rat chloride intra  
 22 628.5 48.0 270 22 ABG27160 Novel human diagn  
 23 599 45.7 236 24 AAE32074 Human TRIC-A prot  
 24 563 43.0 246 22 AAJ10058 Chloride channel f  
 25 537.5 41.0 241 19 AAW61550 Human chloride cha  
 26 511 39.0 222 22 AAD23722 Novel human enzyme  
 27 460.5 35.2 414 22 ABG27159 Novel human diagn  
 28 403 30.8 351 22 AAJ30678 Novel human secret  
 29 375 28.6 131 21 AAB58128 Lung cancer associ  
 30 318.5 24.3 260 22 ABB63383 Drosophila melanog  
 31 316.5 24.2 262 21 AAB29622 Cat flea HMT Cl in  
 32 303.5 23.2 124 22 AAG23393 Human protein sequ  
 33 268 20.5 259 21 AAG10612 Arabidopsis thalia  
 34 267.5 20.4 217 21 AAG10613 Arabidopsis thalia  
 35 234.5 17.9 213 21 AAG10583 Arabidopsis thalia  
 36 234.5 17.9 457 23 ABB91060 Herbicidally activ  
 37 222.5 17.0 213 23 ABB91604 Herbicidally activ  
 38 220.5 16.8 213 21 AAG07144 Arabidopsis thalia  
 39 214.5 16.4 144 21 AAB59087 Breast and ovarian  
 40 214.5 16.4 183 21 AAG10614 Arabidopsis thalia  
 41 187.5 14.3 217 23 ABB93629 Herbicidally activ  
 42 176 13.4 52 22 ABG50370 Human liver peptid  
 43 176 13.4 52 22 ABB20539 Protein #2938 enco  
 44 176 13.4 52 22 AAM56327 Human brain expres  
 45 176 13.4 52 22 AAM56762 Human bone marrow

## ALIGNMENTS

RESULT 1  
 AAM39767  
 ID AAM39767 standard; Protein: 247 AA.

AC AAM39767;  
 DT 22-OCT-2001 (first entry)  
 DE Human polypeptide SEQ ID NO 2912.

XX Human; nototropic; immunosuppressant; cytostatic; gene therapy; cancer;  
 KW peripheral nervous system; neuropathy; central nervous system; CNS;  
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;  
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemoradio;  
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;  
 KW leukaemia.

OS Homo sapiens.

XX Homo sapiens.

XX Homo sapiens.

PF 26-DEC-2000; 2000MO-US34263.

PR 21-JAN-2000; 2000US-0438725.

PR 25-APR-2000; 2000US-0552317.

PR 09-JUL-2000; 2000US-0598042.

PR 19-JUL-2000; 2000US-0620312.

PR 03-AUG-2000; 2000US-0653450.

PR 14-SEP-2000; 2000US-0662191.

PR 19-OCT-2000; 2000US-0693036.

PR 29-NOV-2000; 2000US-0727344.

XX (H)SE-XXXXXX.

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